

<b>Form 1449*</b>  <b>INFORMATION DISCLOSURE STATEMENT</b>  <b>IN AN APPLICATION</b> (Use several sheets if necessary)	Docket Number: 1023-180US02	Application Number: 10/749,573
	Applicant: Douglas K. Medema; William E. Saltzstein; Robert A. Niskanen; Richard C. Nova	
	Filing Date: December 31, 2003	Group Art Unit: Unknown
	Examiner Name: Unknown	

## U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Issue/Document Publication Date	Name	Filing Date If Appropriate
D.P.	3,724,455	04/03/1973	Unger	
	5,003,984	04/02/1991	Muraki et al.	
	5,208,756	05/04/1993	Song	
	5,218,367	06/08/1993	Sheffer et al.	
	5,228,449	07/20/1993	Christ et al.	
	5,304,209	04/19/1994	Adams et al.	
	5,348,008	09/20/1994	Bornn et al.	
	5,354,315	10/11/1994	Armstrong	
	5,512,908	04/30/1996	Herrick	
	5,549,653	08/27/1996	Stotts et al.	
	5,555,286	09/10/1996	Tendler	
	5,593,426	01/14/1997	Morgan et al.	
	5,607,459	03/04/1997	Paul et al.	
	5,609,614	03/11/1997	Stotts et al.	

## FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Publication Date	Country	Translation	
				Yes	No
D.P.	198 36 118 A1	04/15/1999	DE		X
	44 41 907 A1	06/22/1995	DE		X
	2 285 135	06/28/1995	GB		

## OTHER DOCUMENTS (Including Authors, Title of Item, Page(s), Vol/Issue No., Publisher, Place of Publication)

D.P.	Bellsouth, "Simplified Wireless E911 Call Flow in 2001 with Phase II," <a href="http://www.bellsouthcorp.com/issues/911/chart9.html">http://www.bellsouthcorp.com/issues/911/chart9.html</a> , 1997 (4/4/2000).
	TruePosition, Inc., TDOA Overview, "Time difference of arrival technology for locating narrowband cellular signals," <a href="http://www.trueposition.com/tdoa.htm">http://www.trueposition.com/tdoa.htm</a> , 1998-2000, (4/4/2000).

EXAMINER

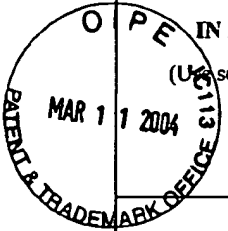
Date Considered

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Based on Form PTO-FB-A820  
(Also form PTO-1449)

Patent and Trademark Office, U.S. Department of Commerce

Best Available Copy



<b>Form 1449*</b>  <b>INFORMATION DISCLOSURE STATEMENT</b>  <b>IN AN APPLICATION</b>  (Use several sheets if necessary)		Docket Number: 1023-180US02		Application Number: 10/749,573	
		Applicant: Douglas K. Medema; William E. Saltzstein; Robert A. Niskanen; Richard C. Nova			
		Filing Date: December 31, 2003		Group Art Unit: Unknown	
		Examiner Name: Unknown			
<b>U.S. PATENT DOCUMENTS</b>					
Examiner Initial	Document Number	Issue/Document Publication Date	Name	Filing Date If Appropriate	
<i>D.P.</i> <div style="border-left: 1px solid black; height: 100%; width: 10px; margin: 0 auto;"></div>	5,609,615	03/11/1997	Sanders et al.	<div style="border-left: 1px solid black; border-right: 1px solid black; height: 100%; width: 100%; position: relative;"> <span style="position: absolute; top: 0; right: 0; font-size: 4em; transform: rotate(45deg);">X</span> </div>	
	5,626,630	05/06/1997	Markowitz et al.		
	5,630,209	05/13/1997	Wizgall et al.		
	5,647,379	07/15/1997	Meltzer		
	5,650,770	07/22/1997	Schlager et al.		
	5,657,487	08/12/1997	Doner		
	5,669,391	09/23/1997	Williams		
	5,683,432	11/04/1997	Goedeke et al.		
	5,687,734	11/18/1997	Dempsey et al.		
	5,701,328	12/23/1997	Schuchman et al.		
	5,709,712	01/20/1998	Paul et al.		
	5,712,619	01/27/1998	Simkin		
	5,720,770	02/24/1998	Nappholz et al.		
✓	5,731,757	03/24/1998	Layson Jr.		
<b>FOREIGN PATENT DOCUMENTS</b>					
Examiner Initial	Document Number	Publication Date	Country	Translation	
				Yes	No
<b>OTHER DOCUMENTS (Including Authors, Title of Item, Page(s), Vol/Issue No., Publisher, Place of Publication)</b>					
<i>D.P.</i>	Xypoint Corporation, "Model W E9-1-1 Model Legislation," <a href="http://www.xypoint.com/we911/legislation/modelact.html">http://www.xypoint.com/we911/legislation/modelact.html</a> , 1999, (4/4/2000).				
<i>D.P.</i>	Xypoint Corporation, "FCC Final Order Docket CC 94-102, Part 1," <a href="http://www.xypoint.com/we911/legislation/fccorder1.html">http://www.xypoint.com/we911/legislation/fccorder1.html</a> , 1999, (4/4/2000).				
<b>EXAMINER</b> <i>Wayne C. Pope</i>			<b>Date Considered</b> <i>3/15/05</i>		

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

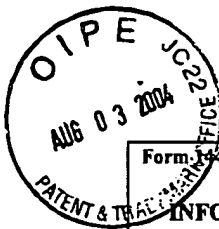
Based on Form PTO-FB-A820  
(Also form PTO-1449)

Patent and Trademark Office, U.S. Department of Commerce

<b>Form 1449*</b>  <b>INFORMATION DISCLOSURE STATEMENT</b>  <b>IN AN APPLICATION</b>  (Use several sheets if necessary)		Docket Number: 1023-180US02		Application Number: 10/749,573	
		Applicant: Douglas K. Medema; William E. Saltzstein; Robert A. Niskanen; Richard C. Nova			
		Filing Date: December 31, 2003		Group Art Unit: Unknown	
		Examiner Name: Unknown			
<b>U.S. PATENT DOCUMENTS</b>					
Examiner Initial	Document Number	Issue/Document Publication Date	Name	Filing Date If Appropriate	
D.P.	5,732,354	03/24/1998	MacDonald		
	5,752,976	05/19/1998	Duffin et al.		
	5,766,232	06/16/1998	Grevious et al.		
	5,767,788	06/16/1998	Ness		
	5,782,878	07/21/1998	Morgan et al.		
	5,835,907	11/10/1998	Newman		
	5,840,020	11/24/1998	Heinonen et al.		
	5,843,139	12/01/1998	Goedeke et al.		
	5,872,505	02/16/1999	Wicks et al.		
	5,873,040	02/16/1999	Dunn et al.		
	5,874,897	02/23/1999	Klempau et al.		
	5,876,353	03/02/1999	Riff		
	5,904,708	05/18/1999	Goedeke		
<b>FOREIGN PATENT DOCUMENTS</b>					
Examiner Initial	Document Number	Publication Date	Country	Translation	
				Yes	No
<b>OTHER DOCUMENTS (Including Authors, Title of Item, Page(s), Vol/Issue No., Publisher, Place of Publication)</b>					
<b>EXAMINER</b> 			<b>Date Considered</b> 3/15/05		
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.					

<b>Form 1449*</b>  <b>INFORMATION DISCLOSURE STATEMENT</b>  <b>IN AN APPLICATION</b>  (Use several sheets if necessary)		Docket Number: 1023-180US02		Application Number: 10/749,573	
		Applicant: Douglas K. Medema; William E. Saltzstein; Robert A. Niskanen; Richard C. Nova			
		Filing Date: December 31, 2003		Group Art Unit: Unknown	
		Examiner Name: Unknown			
<b>U.S. PATENT DOCUMENTS</b>					
Examiner Initial	Document Number	Issue/Document Publication Date	Name	Filing Date If Appropriate	
D.	5,921,938	07/13/1999	Aoyama et al.	<i>Class/sub-class</i> 	
	5,926,133	07/20/1999	Green Jr.		
	5,931,791	08/03/999	Saltzstein et al.		
	5,937,355	08/10/1999	Joong et al.		
	5,959,529	09/28/1999	Kail IV		
	5,960,337	09/28/1999	Brewster et al.		
	5,970,414	10/19/1999	Bi et al.		
	5,971,921	10/26/1999	Timbel		
	5,987,329	11/16/1999	Yost et al.		
	6,002,936	12/14/1999	Roel-Ng et al.		
	6,021,330	02/01/2000	Vannucci		
	6,016,477	01/18/2000	Ehnebuske et al.		
	6,021,371	02/01/2000	Fultz		
<b>FOREIGN PATENT DOCUMENTS</b>					
Examiner Initial	Document Number	Publication Date	Country	Translation	
				Yes	No
<b>OTHER DOCUMENTS (Including Authors, Title of Item, Page(s), Vol/Issue No., Publisher, Place of Publication)</b>					
<b>EXAMINER</b>			<b>Date Considered</b>		
			3/15/05		
<small>* Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>					

<b>Form 1449*</b>  <b>INFORMATION DISCLOSURE STATEMENT</b>  <b>IN AN APPLICATION</b>  (Use several sheets if necessary)		Docket Number: 1023-180US02		Application Number: 10/749,573	
		Applicant: Douglas K. Medema; William E. Saltzstein; Robert A. Niskanen; Richard C. Nova			
		Filing Date: December 31, 2003		Group Art Unit: Unknown	
		Examiner Name: Unknown			
<b>U.S. PATENT DOCUMENTS</b>					
Examiner Initial	Document Number	Issue/Document Publication Date	Name	Filing Date If Appropriate	
<i>D.P.</i> ↓	6,026,304	02/15/2000	Hilsenrath et al.	<del> </del>	
	6,026,305	02/15/2000	Salinger et al.		
	6,028,537	02/22/2000	Suman et al.		
	6,034,635	03/07/2000	Gilhousen		
	6,046,687	04/04/2000	Janky		
	6,047,182	04/04/2000	Zadeh et al.		
	6,386,882 B1	05/14/2002	Linberg		
<b>FOREIGN PATENT DOCUMENTS</b>					
Examiner Initial	Document Number	Publication Date	Country	Translation	
				Yes	No
<b>OTHER DOCUMENTS (Including Authors, Title of Item, Page(s), Vol/Issue No., Publisher, Place of Publication)</b>					
<b>EXAMINER</b> <i>Way J.C. Pope</i>			<b>Date Considered</b> <i>3/15/05</i>		
<small>*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>					



Form 1449\*

**INFORMATION DISCLOSURE  
STATEMENT****IN AN APPLICATION**

(Use several sheets if necessary)

Docket Number:

1023-180US02

Application Number:

10/749,573

Applicant:

Douglas K. Medema; William E. Saltzstein; Robert A. Niskanen;  
Richard C. Nova

Filing Date:

December 31, 2003

Group Art Unit:

2652

Examiner Name:

Unknown

**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Issue/Document Publication Date	Name	<i>class/subclass</i>
				<del>Filing Date If Appropriate</del>
D.F.	4,635,639	01/13/1987	Hakala et al.	
	5,549,115	08/27/1996	Morgan et al.	
	5,549,659	08/27/1996	Johansen et al.	
	5,674,252	10/07/1997	Morgan et al.	
	5,680,864	10/28/1997	Morgan et al.	
	5,683,423	11/04/1997	Post	
	5,749,902	05/12/1998	Olson et al.	
	5,749,913	05/12/1998	Cole	
	5,787,155	07/28/1998	Luna	
	5,836,993	11/17/1998	Cole	
	5,891,046	04/06/1999	Cyrus et al.	
	5,891,049	04/06/1999	Cyrus et al.	
	5,899,866	05/04/1999	Cyrus et al.	
	5,951,485	09/14/1999	Cyrus et al.	
	5,999,493	12/07/1999	Olson	
	6,041,257	03/21/2000	MacDuff et al.	
	6,047,207	04/04/2000	MacDuff et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initial	Document Number	Publication Date	Country	Translation	
				Yes	No
D.F.	WO 02/060529 A2	08/08/2002	PCT		

**OTHER DOCUMENTS (Including Authors, Title of Item, Page(s), Vol/Issue No., Publisher, Place of Publication)**

--	--

**EXAMINER****Date Considered**

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Based on Form PTO-FB-A820  
(Also form PTO-1449)

Patent and Trademark Office, U.S. Department of Commerce



<b>INFORMATION DISCLOSURE STATEMENT</b>  <b>IN AN APPLICATION</b>  (Use several sheets if necessary)	Docket Number: 1023-180US02	Application Number: 10/749,573
	Applicant: Douglas K. Medema; William E. Saltzstein; Robert A. Niskanen; Richard C. Nova	
	Filing Date: December 31, 2003	Group Art Unit: 2652
	Examiner Name: Unknown	

**U.S. PATENT DOCUMENTS**


Examiner Initial	Document Number	Issue/Document Publication Date	Name	<del>Filing Date If Appropriate</del>
D.P.	6,057,758	05/02/2000	Dempsey et al.	
	6,141,584	10/31/2000	Rockwell et al.	
	6,150,951	11/21/2000	Olejniczak	
	6,201,992 B1	03/13/2001	Freeman	
	6,301,502 B1	10/09/2001	Owen et al.	
	6,304,780 B1	10/16/2001	Owen et al.	
	6,321,113 B1	11/20/2001	Parker et al.	
	6,374,138 B1	04/16/2002	Owen et al.	
	6,405,083 B1	06/11/2002	Rockwell et al.	
	6,427,083 B1	07/30/2002	Owen et al.	
	6,438,417 B1	08/20/2002	Rockwell et al.	
	6,493,581 B2	12/10/2002	Russell	
	2003/0025602 A1	02/06/2003	Medema et al.	
	2003/0058097 A1	03/27/2003	Saltzstein et al.	
	2003/0109904 A1	06/12/2003	Silver et al.	
	6,594,634 B1	07/15/2003	Hampton et al.	
	6,597,948 B1	07/22/2003	Rockwell et al.	
	6,668,192 B1	12/23/2003	Parker et al.	

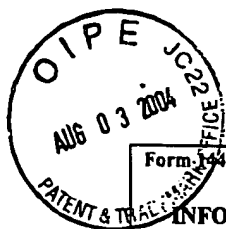
**FOREIGN PATENT DOCUMENTS**

Examiner Initial	Document Number	Publication Date	Country	Translation	
				Yes	No

**OTHER DOCUMENTS (Including Authors, Title of Item, Page(s), Vol/Issue No., Publisher, Place of Publication)**

--	--

<b>EXAMINER</b> 	<b>Date Considered</b> 3/16/05
<small>*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>	



<b>Form 1449*</b> <b>INFORMATION DISCLOSURE STATEMENT</b> <b>IN AN APPLICATION</b> (Use several sheets if necessary)		<b>Docket Number:</b> 1023-180US02		<b>Application Number:</b> 10/749,573	
		<b>Applicant:</b> Douglas K. Medema; William E. Saltzstein; Robert A. Niskanen; Richard C. Nova			
		<b>Filing Date:</b> December 31, 2003		<b>Group Art Unit:</b> 2652	
		<b>Examiner Name:</b> Unknown			
<b>U.S. PATENT DOCUMENTS</b>					
<b>Examiner Initial</b>	<b>Document Number</b>	<b>Issue/Document Publication Date</b>	<b>Name</b>	<b>Filing Date If Appropriate</b>	
D.P.	4,635,639	01/13/1987	Hakala et al.		
	5,549,115	08/27/1996	Morgan et al.		
	5,549,659	08/27/1996	Johansen et al.		
	5,674,252	10/07/1997	Morgan et al.		
	5,680,864	10/28/1997	Morgan et al.		
	5,683,423	11/04/1997	Post		
	5,749,902	05/12/1998	Olson et al.		
	5,749,913	05/12/1998	Cole		
	5,787,155	07/28/1998	Luna		
	5,836,993	11/17/1998	Cole		
	5,891,046	04/06/1999	Cyrus et al.		
	5,891,049	04/06/1999	Cyrus et al.		
	5,899,866	05/04/1999	Cyrus et al.		
	5,951,485	09/14/1999	Cyrus et al.		
	5,999,493	12/07/1999	Olson		
	6,041,257	03/21/2000	MacDuff et al.		
6,047,207	04/04/2000	MacDuff et al.			
<b>FOREIGN PATENT DOCUMENTS</b>					
<b>Examiner Initial</b>	<b>Document Number</b>	<b>Publication Date</b>	<b>Country</b>	<b>Translation</b>	
				<b>Yes</b>	<b>No</b>
D.P.	WO 02/060529 A2	08/08/2002	PCT		
<b>OTHER DOCUMENTS (Including Authors, Title of Item, Page(s), Vol/Issue No., Publisher, Place of Publication)</b>					
<b>EXAMINER</b> D. C. Pope			<b>Date Considered</b> 3/15/05		

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



